

COMPOSITE MATERIAL WITH IMPROVED DAMPING CHARACTERISTICS AND METHOD OF MAKING SAME

ABSTRACT OF THE DISCLOSURE

A composite laminate structure formed from at least one high-strength, high-stiffness fiber-resin composite structural lamina laminated to at least one fiber-resin composite damping lamina, wherein the resin matrix of the structural lamina resides
5 below its glassification temperature (T_g) and wherein the resin matrix of the damping lamina resides above its glassification temperature during normal use temperatures, thereby providing a high-strength laminate with improved damping properties.